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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-053572

(43)Date of publication of application : 27.02.1996

(51)Int.Cl. C08K 7/00
C08K 3/32
C08K 3/34
C08L101/00

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(54) THERMOPLASTIC RESIN COMPOSITION, PRODUCTION THEREOF, AND GAS-BARRIER FILM THEREFROM

(57)Abstract:

PURPOSE: To obtain a thermoplastic resin composition in which a laminar silicate salt or a laminar phosphate salt is dispersed in a thermoplastic resin in a finely cleaved state, thus is useful as a film or the like because it is excellent in balance in mechanical properties, resistance to heat distortion and gas barrier properties.

CONSTITUTION: This composition comprises (A) a thermoplastic resin, for example, polypropylene resin or polyamide resin and (B) a laminar compound selected from a laminar silicate salt and a laminar phosphate compound having a substantially inactive compound (preferably an organic onium ion having 12°C or more alkyl group) between layers wherein the amount of component B is 0.01-40wt.% calculated as ash and more than 40wt.% of component B is dispersed in component A in 0.05-10nm thickness. This composition is obtained in a powdery composite form by loading stress and compression force of higher than 500sec-1 shear rate to a powdery mixture of components A and B simultaneously at a temperature lower than the softening point of component A.

LEGAL STATUS

[Date of request for examination] 24.08.1999

[Date of sending the examiner's decision of
rejection]